

Csf2

Recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor

Catalog No.	CRG105A CRG105B CRG105C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Gmcsf, Gm-csf, CSF-2. Pluripoietin-alpha, MGI1GM		
Description:	Granulocyte- Macrophage Colony Stimulating Factor (GM-CSF) is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in by endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity.		
Gene ID:	116630		
Protein Accession No:	P48750		
Source:	<i>E. coli</i>		
Molecular Weight:	Recombinant rat GM-CSF is a 14.5 kDa globular protein consisting of 128 amino acids residues.		
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.		
Purity:	>98% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a cell proliferation assay using mouse FDC-P1 is less than 0.01 ng/ml.		
Specific Activity:	> 1.0 × 10 ⁸ IU/mg		
Amino Acid Sequence:	MAPTRSPNPV TRPWKHVDAI KEALSLLNDM RALENEKNED VDIISNEFSI QRPTCVQTRL KLYKQGLRGN LTKLNGALTM IASHYQTNCP PTPETDCEIE VTTFEDFIKN LKGFLFDIPF DCWKPVQK		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

